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Date: January 18, 2005

By: Cheryl L. Powell

Cheryl L. Powell

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and any continuations or divisionals thereof. I hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and any continuations or divisionals thereof and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien Chou
Simon Lu

Registration Number: 41,672
Registration Number: 51,974

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Please change the correspondence address for all the applications listed below to:

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All telephone calls for all applications listed below should be addressed to Steven E. Koffs at (215) 979-1250.

CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation

(Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

| Serial No. | Filing Date | Assignment Information |
|------------|-------------|---|
| 09/765,044 | 01/19/2001 | Assignment recorded in the Patent and Trademark Office at Reel 011491, Frame 0720 |
| 09/804,389 | 03/13/2001 | Assignment recorded in the Patent and Trademark Office at Reel 009766, Frame 0536 |
| 09/951,918 | 09/14/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012187, Frame 0301 |
| 10/037,586 | 01/04/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012456, Frame 0272 |
| 10/082,024 | 02/21/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012644, Frame 0780 |
| 10/083,991 | 02/26/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012656, Frame 0799 |
| 10/147,245 | 05/16/2002 | Assignment recorded in the Patent and Trademark Office at Reel 011496, Frame 0226 |
| 10/178,401 | 06/24/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013050, Frame 0369 |
| 10/186,533 | 07/01/2002 | Assignment recorded in the Patent and Trademark Office at Reel 009801, Frame 0627 |
| 10/236,336 | 09/06/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013275, Frame 0306 |

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| 10/236,360 | 09/06/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013277, Frame 0584 |
| 10/272,136 | 10/16/2002 | Assignment recorded in the Patent and Trademark Office at Reel 011883, Frame 0275 |
| 10/290,644 | 11/08/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013486, Frame 0556 |
| 10/308,446 | 12/03/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013547, Frame 0771 |
| 10/323,422 | 12/19/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012235, Frame 0521 |
| 10/355,997 | 01/31/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013732, Frame 0020 |
| 10/357,578 | 02/04/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013734, Frame 0280 |
| 10/371,516 | 02/20/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013807, Frame 0608 |
| 10/417,320 | 04/16/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013978, Frame 0414 |
| 10/431,275 | 05/07/2003 | Copy of Assignment attached |
| 10/462,266 | 06/16/2003 | Assignment recorded in the Patent and Trademark Office at Reel 010109, Frame 0304 |
| 10/627,795 | 07/25/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014338, Frame 0291 |
| 10/649,472 | 08/27/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012283, Frame 0901 |
| 10/671,259 | 09/25/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014553, Frame 0472 |
| 10/696,642 | 10/29/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014657, Frame 0905 |
| 10/758,315 | 01/15/2004 | Assignment recorded in the Patent and Trademark Office at Reel 014908, Frame 0543 |
| 10/771,489 | 02/03/2004 | Assignment recorded in the Patent and Trademark Office at Reel 014966, Frame 0428 |
| 10/788,170 | 02/26/2004 | Assignment recorded in the Patent and Trademark Office at Reel 015033, Frame 0212 |
| 10/791,022 | 03/02/2004 | Assignment recorded in the Patent and Trademark Office at Reel 011125, Frame 0466 |
| 10/807,037 | 03/23/2004 | Assignment recorded in the Patent and Trademark Office at Reel 015133, Frame 0097 |
| 10/808,802 | 03/25/2004 | Copy of Assignment attached |
| 10/818,582 | 04/06/2004 | Copy of Assignment attached |

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

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I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 10/21/2004 By: 
Name: Chien-Wei Chou
Title: Director, Intellectual Property Division

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